

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

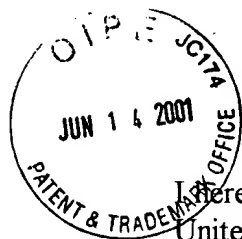
Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner for Patents, Washington, DC 20231.

Date

6/11/01

Jeanne Connelly

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Jeffrey Chan et al.
Application No. : 09/749,303 Confirmation No.: 5430
Filed : December 27, 2000
For : METHOD AND SYSTEM FOR ANALYZING PERFORMANCE
OF A TURBINE

Docket No. : 243768021US

Date : June 11, 2001

Commissioner for Patents
Washington, DC 20231

TRANSMITTAL OF FORMAL DRAWINGS

Sir:

Enclosed please find 13 sheets of formal drawings (Figures 1-13) for the above-identified application.

Respectfully submitted,
Perkins Coie LLP



Maurice J. Pirio

Registration No. 33,273

MJP:jc

Enclosures:

13 Sheets of Drawings

PERKINS COIE LLP
P.O. Box 1247
Seattle, Washington 98111-1247
(206) 583-8888
FAX: (206) 583-8500

Turbine Optimizer | Packaged Offerings | Technical Documents | M & D | Quote Bin - Buy

Choose a Site: MY STATION

Choose a Unit: 006 -- MY7FAGT

90

105

Unit / Outage Information										Correct any deficiencies in the data below - click update to effect your changes																													
Next Outage Dates					MM DD YYYY					Customer ID					MY CUSTOMER					Site ID					MY STATION														
MAJOR					02 02 2001					Unit #					0006										MR22637														
HOT GAS PATH										Output Inletiam					150108 ISO Connected										Heat Rate (Btu/kWh)					9777 ISO Connected									
COMBUSTION										Availability (%)					00 Same GR4P										Reliability (%)					00 Same GR4P									
Operational Cycle					Combined Cycle					Op Hours					8000										Unit Starts					147									
Loading Cycle					Mid-Range					COD					08 21 1994					Shipped Date					06/01/1992														
Fuel Type					Liquid Natural Gas					Reading Date					09/01/1927					Frame Size					071F5														
Emission Control					Dry Low Nox 2.6					Unit Type					Gas Turbine					Control Type																			
																														update									

! Notes on Fleet Performance comparison figures (OUTPUT HEATRATE, AVAILABILITY, and RELIABILITY)

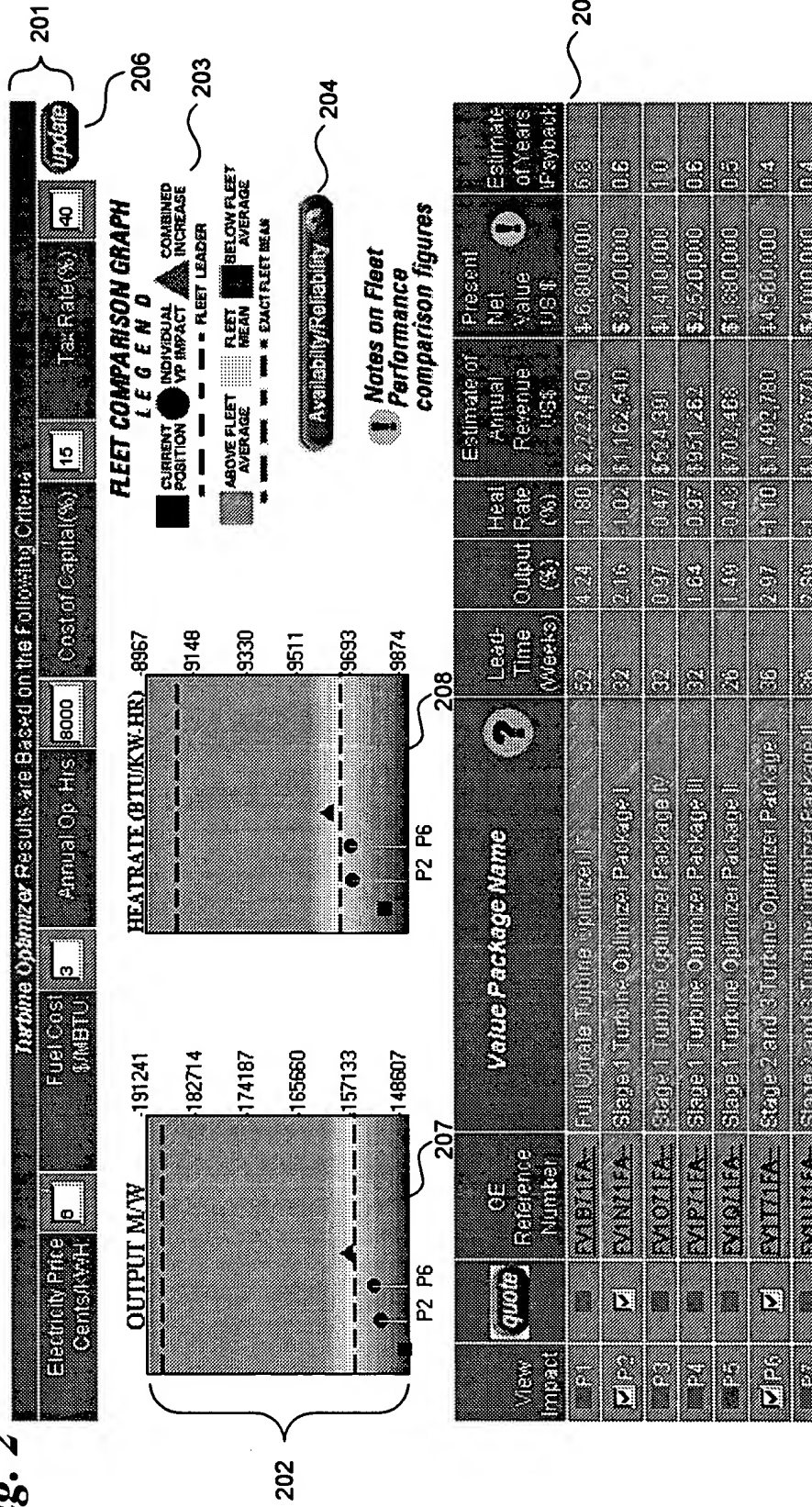
[Privacy Policy](#) | [Terms of Use](#)

[illegible]

Identify inaccuracies or missing information

Fig. 1

Fig. 2



Uprate Performance Impact Matrix													
301			302		303		304						300
Customer Name	SN	Current Rating	Stg1	S1B, S1S	S1N, S1S	S1B, S1N	88 IGV	CDC/ HPP	S2B, S2S	S3B, S3S	S2B, S2S, S3B, S3S	Stg2, Stg3	Performance Impact (parts only)
ACME TI=2420, IGV=90	297031	Output	0.64	0.31	0.70	0.13	0.00	0.00	0.08	-0.03	0.09	0.59	1.30
		HR	-0.51	0.02	-0.55	0.36	0.00	0.00	0.02	0.07	0.03	-0.20	-0.77
Smith TI=2420	297112	Output	0.54	0.21	0.70	0.03	0.00	0.00	0.08	-0.03	0.09	0.59	1.20
		HR	-0.51	0.02	-0.55	0.36	0.00	0.00	0.02	0.07	0.03	-0.20	-0.77

305

306

304													
Sum Parts+ TI	Cycle Deck Run	FV1B	FV1P	FV1T	FV1U	FV1V	FV1W	FV1N	FV1O	FV1Q	FV4B	FV4P	FV4T
0 1.3		1.3	0.313	0.594	0.086	0.0799	-0.033	0.639	0.6993	0.125	n/a	n/a	n/a
0 -0.77		-0.77	0.02	-0.198	0.026	0.02	0.0733	-0.506	-0.553	0.363	n/a	n/a	n/a
0 1.3		1.2	0.313	0.594	0.086	0.0799	-0.033	0.639	0.6993	0.125	n/a	n/a	n/a
0 -0.77		-0.77	0.02	-0.198	0.026	0.02	0.0733	-0.506	-0.553	0.363	n/a	n/a	n/a

Fig. 3

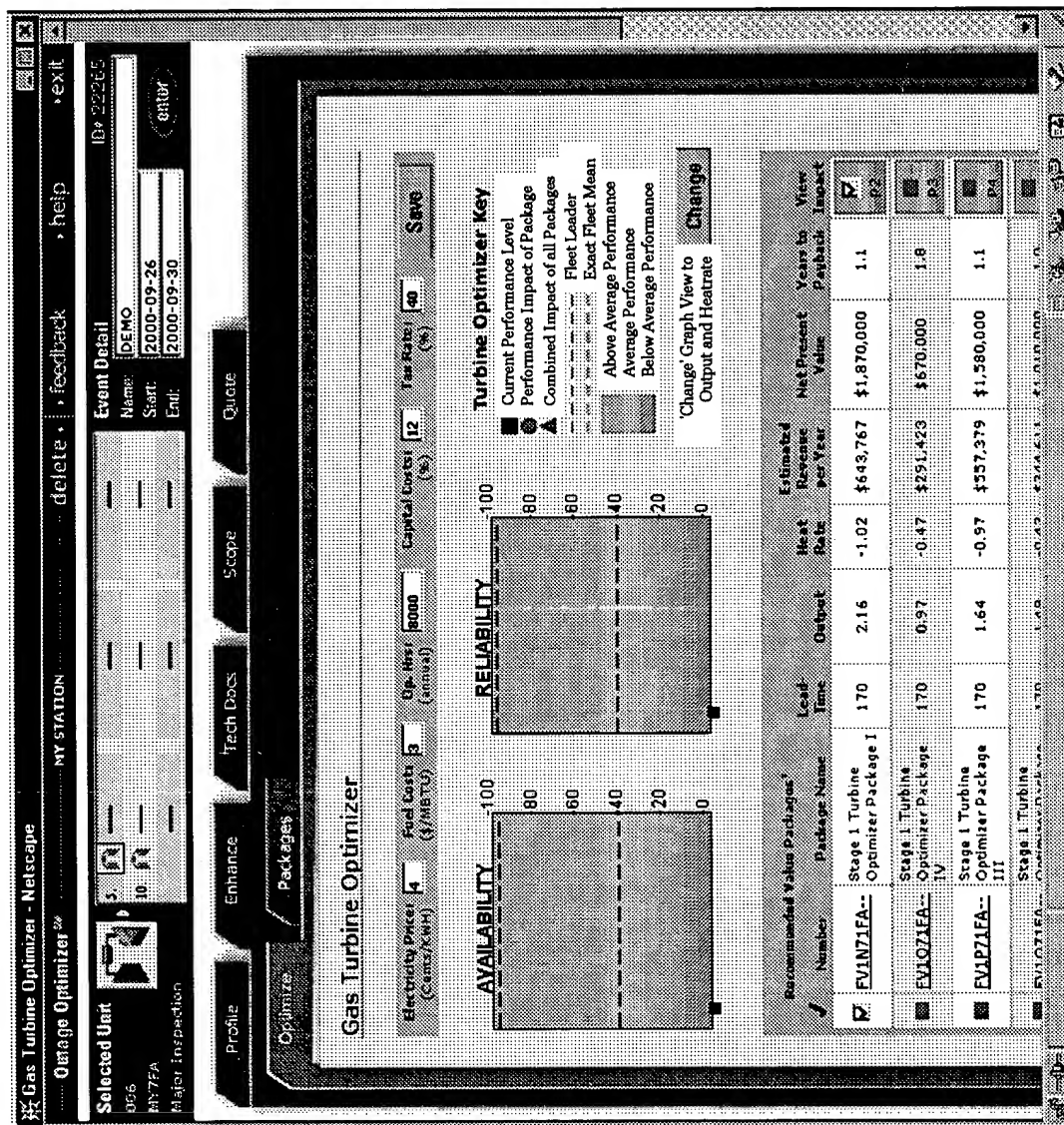


Fig. 4

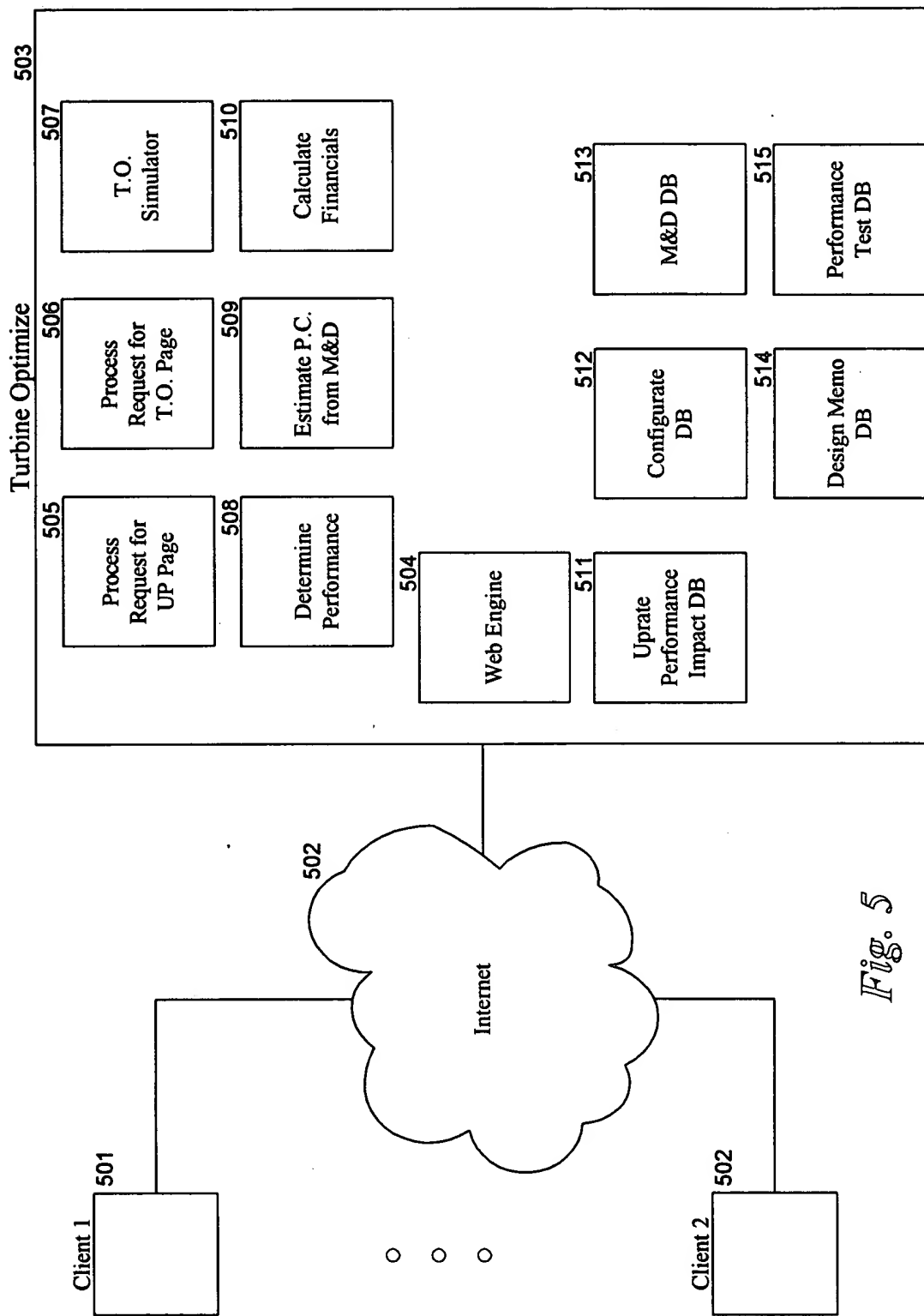


Fig. 5

(Site, Unit)

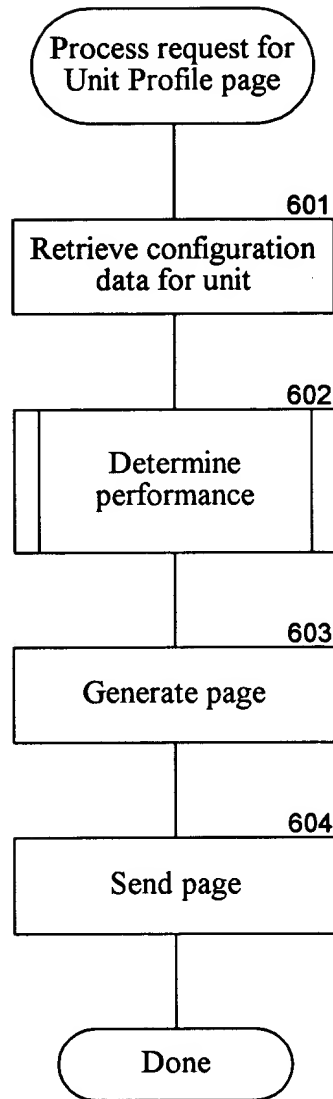


Fig. 6

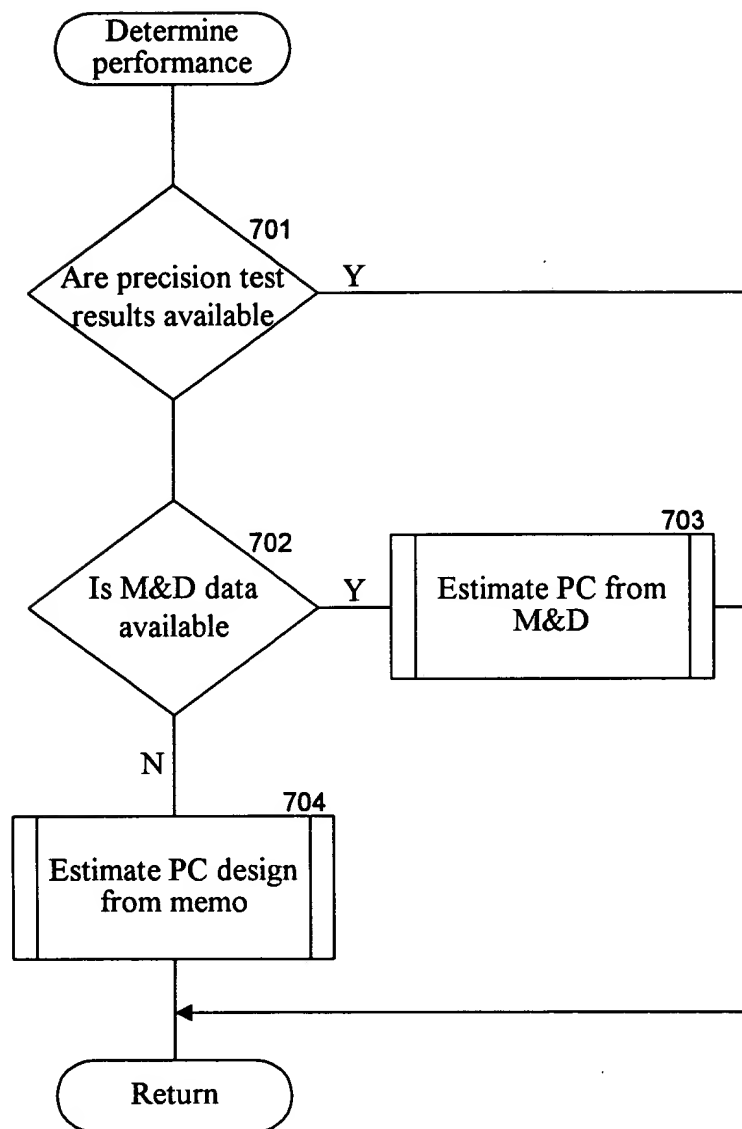


Fig. 7

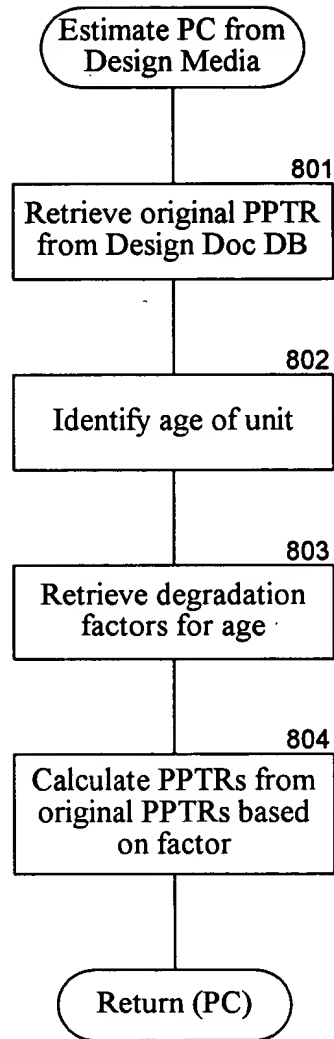


Fig. 8

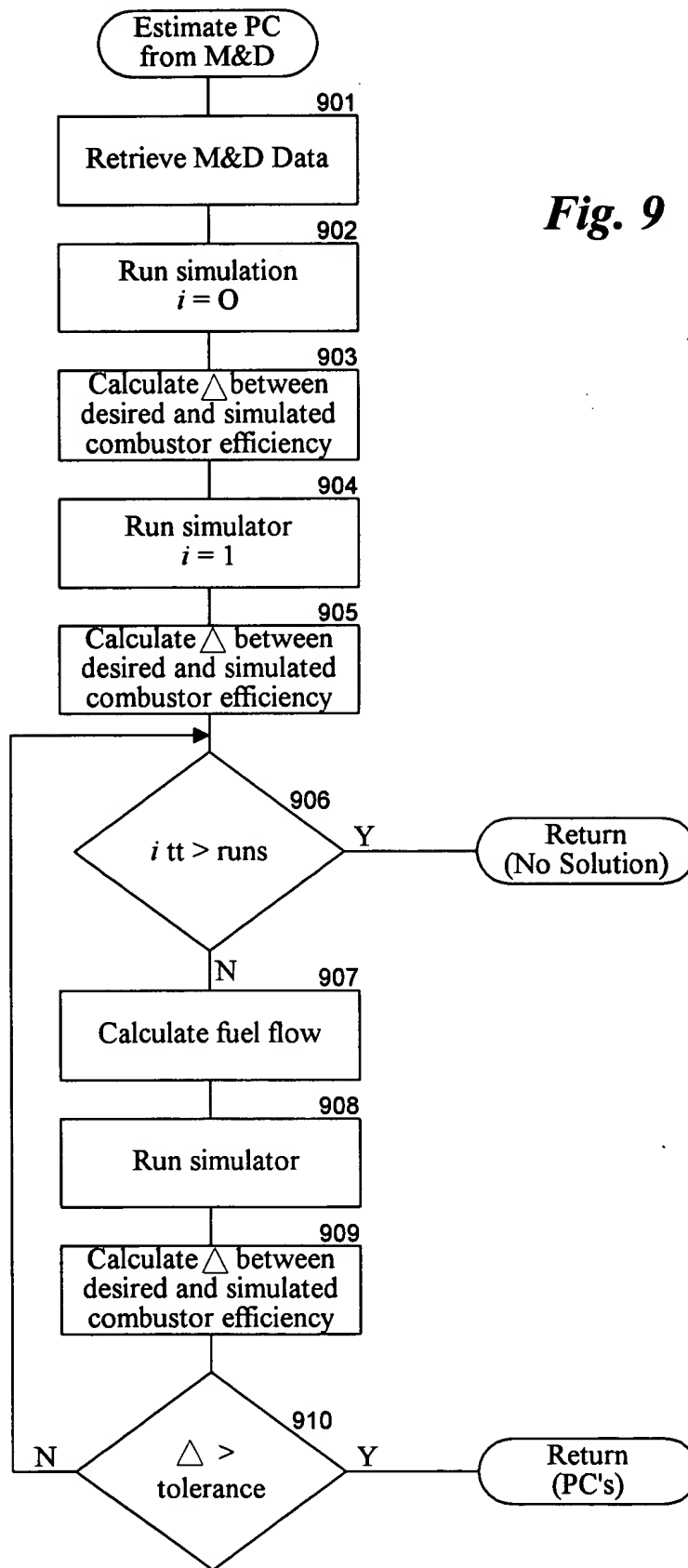


Fig. 9

U.S. Patent and Trademark Office

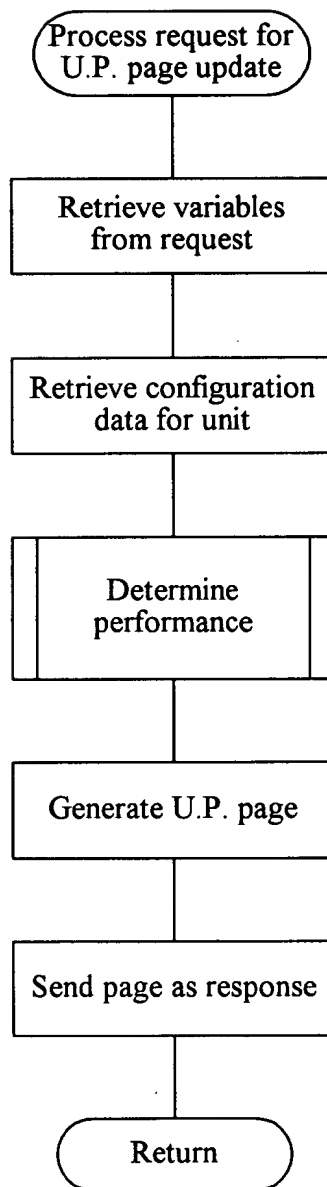


Fig. 10

1101 1102 1103

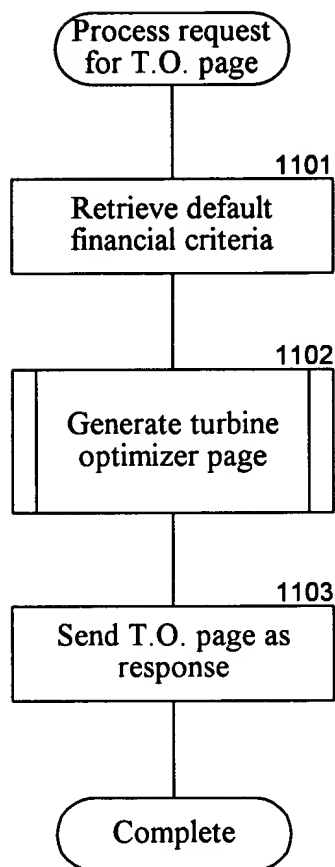


Fig. 11

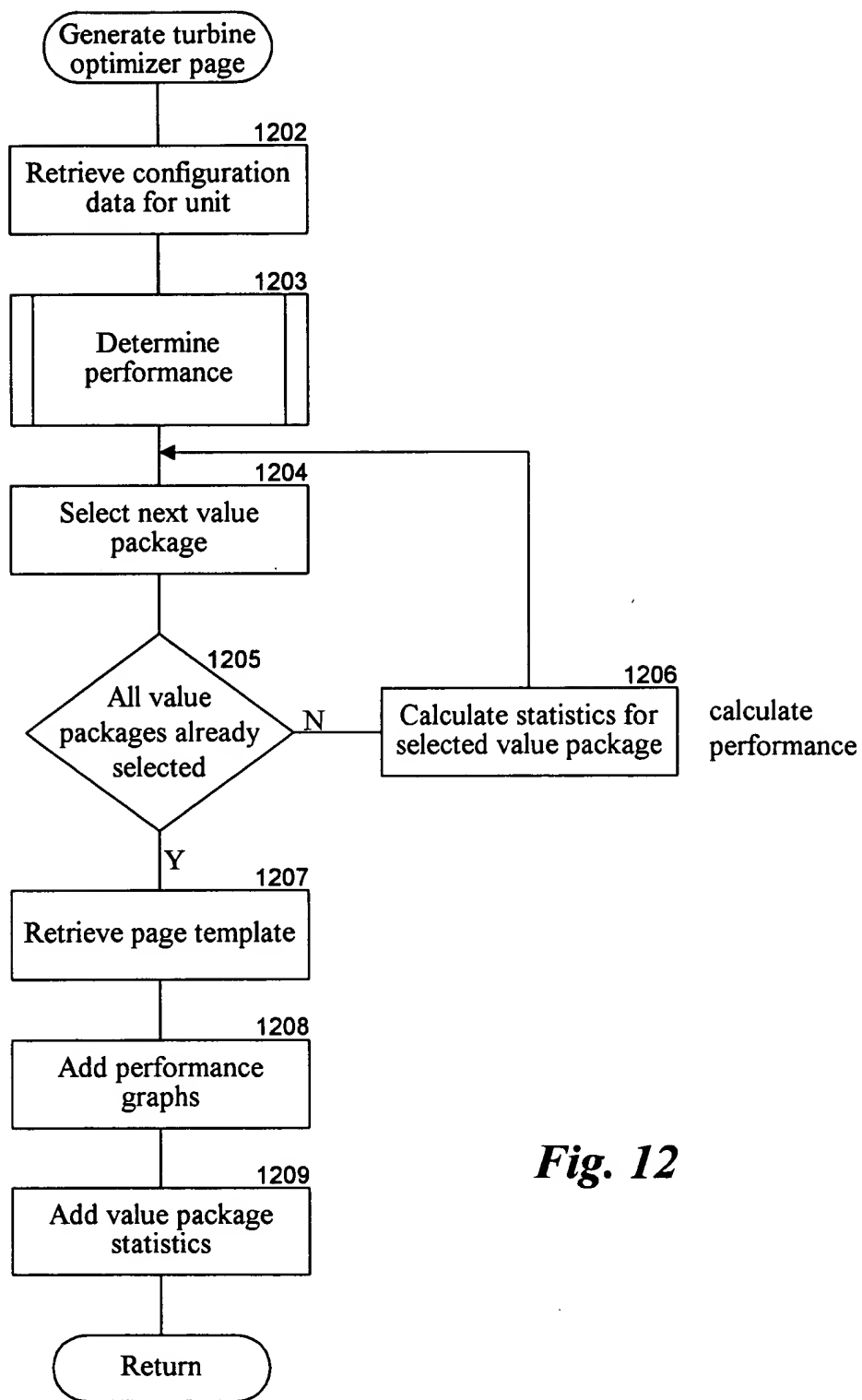


Fig. 12

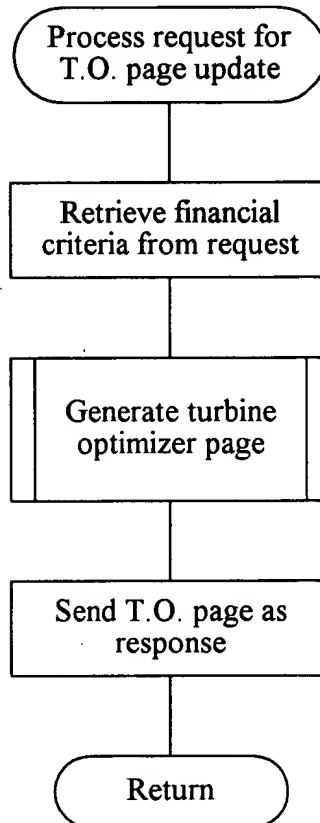


Fig. 13